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Proposed Maximum Residue Limit PMRL2015-32

Abamectin

(publié aussi en français)

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has concluded that the addition of a new use on hops to the product label of Agri-Mek® 1.9% EC Insecticide/Miticide, containing technical grade abamectin, is acceptable. The specific use approved in Canada is detailed on the label of Agri-Mek® 1.9% EC Insecticide/Miticide, Pest Control Products Act Registration Number 24551.

The evaluation of this abamectin application indicated that the end-use product has value and the human health and environmental risks associated with the new uses are acceptable.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Consultation on the proposed MRL for abamectin is being conducted via this document (see Next Steps, the last section of this document). A summary of the field trial data used to support the proposed MRL can be found in Appendix I.

To comply with Canada's international trade obligations, consultation on the proposed MRL is also being conducted internationally by notifying the World Trade Organization, as coordinated by Canada's Notification Authority and Enquiry Point.

The proposed MRL, to be added to the MRLs already established for abamectin, is as follows.

Table 1 Proposed Maximum Residue Limit for Abamectin

Common Name	Residue Definition	MRL (ppm)[1]	Food Commodity
Abamectin	avermectin B_1 (a mixture of avermectins containing greater than or equal to 80% avermectin B_{1a} (5-O-demethyl avermectin A_{1a}) and less than or equal to 20% avermectin B_{1b} (5-O-demethyl-25-de(1-methylpropyl)-25-(1-methylethyl) avermectin A_{1a}) and its delta-8,9-isomer)	0.2	Hops (dried)

[1] ppm = parts per million

MRLs established in Canada may be found using the Maximum Residue Limit Database on the Maximum Residue Limits for Pesticides webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International Situation and Trade Implications

MRLs may vary from one country to another for a number of reasons, including differences in pesticide use patterns and the locations of the field crop trials used to generate residue chemistry data.

Table 2 compares the MRL proposed for abamectin in Canada with the corresponding American tolerance and Codex MRL.[1] American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide. A listing of established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website, by pesticide or commodity.

Table 2 Comparison of Canadian MRL, American Tolerance and Codex MRL (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Hops (dried)	0.2	0.2 (Hop, dried cones)	0.1 (Hops, dry)

Next Steps

The PMRA invites the public to submit written comments on the proposed MRL for abamectin up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRL. Comments received will be addressed in a separate document linked to this PMRL. The established MRL will be legally in effect as of the date that they are entered into the Maximum Residue Limit Database.

[1] The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Appendix I

Summary of Field Trial Data Used to Support the Proposed Maximum Residue Limit

Residue data from field trials conducted in the United States were submitted to support the domestic use of Agri-Mek® 1.9% EC Insecticide/Miticide on hops. Abamectin was applied to hops, which were harvested according to the proposed label directions.

Maximum Residue Limit

The recommendation for a maximum residue limit (MRL) for abamectin was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. Table A1 summarizes the residue data used to calculate the proposed MRL for hops (dried).

Table A1 Summary of Field Trial Data Used to Support MRL

Commodity	Application Method/ Total Application Rate (g a.i./ha)[1]	Preharvest Interval (days)	Maximum Residues (ppm)	Minimum Residues (ppm)
Hops (dried)	Foliar/ 42.6-43.7	27-28	0.094	<0.014

[1] g a.i./ha = grams of active ingredient per hectare

Following the review of all available data, the MRL as proposed in Table 1 is recommended to cover residues of abamectin. Residues of abamectin in dried hops at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.